

PATENT CLAIMS

1. A device to control material or fragment discharge (19, 20, 21, 22) from a primary or secondary liner (15) in connection with triggering, by initiation of a main charge (3) of an ammunition unit (1), e.g., in the form of a missile or projectile, characterized by that the liner is devised as being exposable for effect from the explosive charge or charges (6) that are devised as being able to be initiate able upon or shortly prior to the triggering of the main charge and that the explosive charge or charges obtain, upon initiation, a pre-deformation of the liner prior to the liner being affected by the triggering of the main charge for material or fragment discharge.
2. A device in accordance with patent claim 1, characterized by that the explosive charge or charges (6) are arranged at the front side of the liner (4a) at the liner's periphery (4b).
3. A device in accordance with patent claim 1, characterized by that the explosive charge or charges (6) are arranged at the liner's periphery with an intermediary barrier (23).
4. A device in accordance with patent claim 3, characterized by that the barrier (23) may be made of lead, approximately 1 mm thick, and neoprene, approximately 4 mm thick.
5. A device in accordance with patent claim 2, characterized by that each explosive charge (6', 6'') may be formed with an exterior surface (6a), facing lengthwise (16) to the main charge, and an angled surface, at the outer parts of the exterior surface facing the convex surface of the liner, that dilates itself outwards from the convex surface, leaving a central aperture in the ammunition unit's direction of flight that dilates outwards like a truncated cone.
6. A device in accordance with patent claim 2 or 3, characterized by that the divergent fragment or material discharge, resulting from main charge initiation, is given small angles of dispersion, e.g. within the range of 0.4 – 9.0°, and low velocities, e.g. near 540 – 925 m/s.

7. A device in accordance with patent claim 3 or 4, characterized by that each explosive charge or charges (6'', 6''') may, e.g., begin from the exterior circumference of the barrier (23) with parallel interior and exterior surfaces and be arranged with an end surface (6c) extending perpendicular to the interior and exterior surfaces and the interior and exterior surfaces allow a central aperture (18') that extends cylindrically from the convex surface of liner in the ammunition unit's direction of flight.
8. A device in accordance with patent claims 3, 4 or 7, characterized by that the divergent material or fragment discharge (19, 20, 21), resulting from the initiation of the main charge, obtain angles of dispersion between 5.0 – 34° and velocities within the range of 380 – 650 m/s.
9. A device in accordance with any of patent claims 1 – 8, characterized by that the liner (4') is deformed upon the initiation of the explosive charge or charges in a random manner over given cross sections.
10. A device in accordance with any of patent claims 1 – 9, characterized by that the concave and convex surfaces of the liner obtain wave forms (4a', 4a'', 4b) in given cross sections.